

S U M M A R Y

According to the invention, there is provided a vector for the expression of immunoglobulin-cytokine fusion proteins in malignant B cells at least containing operably linked to each other

(a) a region of at least 1.5 kb which is homologous to a region of the μ intron or the κ intron and which lacks a functional C_μ or C_κ enhancer or contains a non-functional C_μ or C_κ enhancer;

(b) at least one DNA sequence encoding a domain of an immunoglobulin or a part thereof;

(c) a DNA sequence encoding a cytokine; and

(d) a marker gene selectable in eukaryotic B cells and lacking a functional enhancer region wherein the expression of said marker following integration is controlled by the cellular C_μ or C_κ enhancer.